



12D4

HALF-WAVE VACUUM RECTIFIER

*Intended for TV damper service in equipment
having series heater-string arrangement*

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 12.6 ac or dc volts

Current. 0.6 amp

Warm-up time (Average). 11 sec

*For definition of heater warm-up time and method of determining
it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of
this Section.*

Direct Interelectrode Capacitances (Approx.):^o

Plate to cathode and heater. 6 μ f

Cathode to plate and heater. 8 μ f

Heater to cathode. 3 μ f

Mechanical:

Operating Position Any

Maximum Overall Length 3-5/16"

Maximum Seated Length. 2-3/4"

Maximum Diameter 1-9/32"

Dimensional Outline. See General Section

Bulb T9

Base Intermediate-Shell Octal 5-Pin,

Arrangement 2 (JEDEC Group 1, No. B5-82),

Intermediate-Shell Octal 6-Pin,

Arrangement 1 (JEDEC Group 1, No. B6-8),

Short Intermediate-Shell Octal 5-Pin

with External Barriers, Arrangement 2

(JEDEC Group 1, No. B5-85), or

Short Intermediate-Shell Octal 6-Pin

with External Barriers, Arrangement 1

(JEDEC Group 1, No. B6-60)

Basing Designation for BOTTOM VIEW 4CG

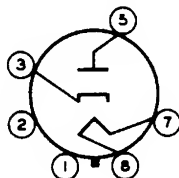
Pin 1 $\blacklozenge$ - Same as

Pin 2

Pin 2 - Internal

Connection-

Do Not Use $\bullet$



Pin 3 - Cathode

Pin 5 - Plate

Pin 7 - Heater

Pin 8 - Heater

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system[□]

PEAK INVERSE PLATE VOLTAGE* 4400 max. volts

PEAK PLATE CURRENT. 900 max. ma

DC PLATE CURRENT. 155 max. ma

^o, $\blacklozenge$, $\bullet$, $\square$, *: See next page.

12D4



12D4

HALF-WAVE VACUUM RECTIFIER

PLATE DISSIPATION. 5.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 4400[▲] max. volts

Heater positive with respect to cathode. 300[※] max. volts

○ Without external shield.

◆ On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.

● Socket terminals 1, 2, 4 and 6 should not be used as tie points.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

* This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

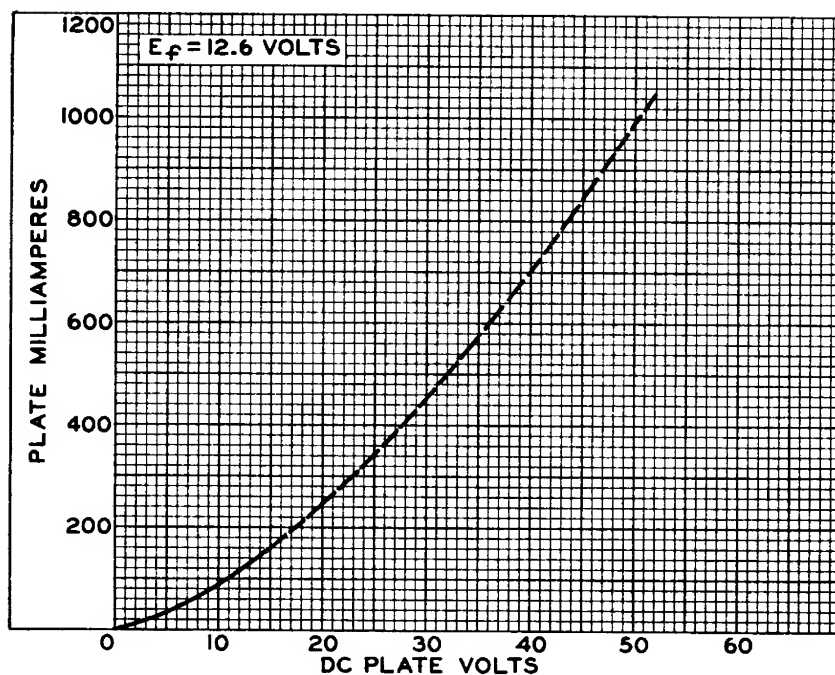
▲ The dc component must not exceed 900 volts.

※ The dc component must not exceed 100 volts.

4-59

TENTATIVE DATA

AVERAGE PLATE CHARACTERISTIC



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CS-9757